L 01516-66   EWT(d)/EWT(l)/EED-2   GW/BG   •

ACCESSION NR: AP5020911   UR/0006/65/000/008/0010/0014
                                                         528.517

AUTHOR: Virovets, Yu. B.   36
                                                                       B

TITLE: The improved SDD-M optical range finder

SOURCE: Geodeziya i kartografiya, no. 8, 1965, 10-14

TOPIC TAGS: geodetic instrument, geodimeter, range finder, SDD M range finder

ABSTRACT: Field tests of the SDD phased-light range finders developed in 1963 for
use in the second-order surveys executed by organizations of the Main Administration
of Geodesy and Cartography (GUGK) disclosed that frequent and time-consuming checks
of instrumental constant corrections were necessary. This paper describes the tech-
niques and procedures used by the author to overcome this deficiency. Features in-
corporated in the new model (SDD-M) included 1) design and construction of a cali-
bration bench similar to that used with the EOD-1 precision geodimeter, which made
it possible to determine the correction constant over a short line instead of the
previously used long distance; 2) use of a polarizing prism in the receiver, which
eliminated the migration of the floating "spot" across the surface of the photo-
multiplier cathodes so that all (instead of half) of the light rays were conveyed

Card 1/2

L 01518-66

ACCESSION NR: AP5020911   *O*

to each photomultiplier, thus increasing the range by about 20%. Field investiga-
tions of the equipment, using revised observation procedures, were carried out in
1964.   The results were very favorable and demonstrated that the correction con-
stant of the range finder could be determined over a 7-m line with an error of
±5 mm, and the number of readouts required in a single observation could be reduced
to 48 (from 192) with a 1:300,000 accuracy in distance measurement. Orig. art. has:
4 tables.   [ER]

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: ES, *OP*

NO REF SOV: 001   OTHER: 000   ATD PRESS: *4088*

Card 2/2

VIROVETS, Yu.B., student IV kursa

Direct method of determining the geodetic azimuth using a
photoelectric technique. Trudy MIIGAIK no.50:97-101 '62.
                                        (MIRA 16:7)
1. Kafedra astronomii, astronomo-geodezicheskiy fakul'tet
Moskovskogo instituta inzhenerov geodezii, aerofotos"ye mki i
kartografii.
            (Azimuth)   (Photoelectricity)

VIROVETS, Yu.B.; DEMUSHKIN, A.I.; PRILEPIN, M.T.

Testing an experimental model of the SDD geodimeter. Geod.i
kart. no.10:8-14 O '62.   (MIRA 15:12)
                          (Geodimeter—Testing)

VIROVLYANSKIY, G. M.

Doc Geol-Min Sci - (diss) "Principles of the formation of the
structure of ore fields. On the example of arsenopyrite deposits."
Moscow, 1961. 36 pp; (Ministry of Geology and Mineral Resources
Conservation, USSR, All-Union Scientific Research Geological Inst
"VSEGEI"); 150 copies; price not given; list of author's works at
end of text (12 entries); (KL, 5-61 sup, 179)

VIROVLYANSKIY, G.M.; BLAGODETELEVA, Yu.N.

New data on the structure of the Khibiny apatite deposits. Dokl.
AN SSSR 154 no.1:94-97 Ja'64.   (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gornokhi-
micheskogo syr'ya. Predstavleno akademikom V.I. Smirnovym.

UIRCVI IANSKIY, G.M (handwritten)

15-57-7-9626

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
pp 126-127 (USSR)

AUTHOR: Virovlyanskiy, G. M.

TITLE: Intrusion of Dikes and Formation of Ores in Hydro-
thermal Deposits (O tektonicheskikh usloviyakh
vnedreniya dayek i formirovaniya rud v gidrotermal'-
nykh mestorozhdeniyakh)

PERIODICAL: Sov. geologiya, 1956, sb. Nr 50, pp 67-89.

ABSTRACT: The author questions the views of F. I. Vol'fson that
vein matrix is intruded into host rock under conditions
of expansion, while ore veins are formed under con-
ditions of compression, and that the expansion during
intrusion of matrix is the result of compression
oriented parallel to the direction of the matrix. He
analyzes the process of opening of fissures in the
period of intrusion of the matrix on the basis of
numerous examples and extensive statistical data.

Card 1/3   He then describes: 1) the form and arrangement of

15-57-7-9626

Intrusion of Dikes and Formation of Ores (Cont.)

ore-containing fissures, 2) the mineral filling typical of a large number of hydrothermal deposits, which reflects relatively free conditions of formation of mineral substance; 3) the series of movements occurring in fissures during the period of their filling. These movements, in the majority of cases, correspond to faults which develop as a result of expansion of the earth's crust. The presence in ore deposits of not one but a number of differently oriented systems of dikes of matrixes and mineral veins makes it impossible to consider the opening of fissures to be the result of parallel compression. The opening of fissures and formation of dikes and mineral veins occur under conditions of two-directional expansion, usually with one direction predominating. Expansion in the second direction has no independent significance and represents the result of the original forces. In no case does the deformation occur in a single plane. Shearing stresses acting during the opening of fissures and during formation in them of mineral bodies are the cause of faulting. The deformation has a characteristic orientation--the axis of elongation is normal to the direction of the best developed system of mineral bodies, while the axis of shorten-
Card 2/3

15-57-7-9626

· Intrusion of Dikes and Formation of Ores (Cont.)

ing is usually vertical. The conditions of formation of matrix dikes and mineral veins of hydrothermal origin are similar, and the tectonic factors typical for the formation of fissures during various stages of filling have much in common. However, this does not mean that these stages are a continuation of each other. The structures of ore deposits show that stages of expansion are usually separated by a period of compression of the given sector of the earth's crust. Fault formation is renewed in the period of ore deposition and is interrupted (possibly repeatedly) in the post-ore-forming period. This is indicated by the numerous small upthrust and overthrust displacements in various ore deposits.

Card 3/3

I. V. Kunayev

VIROVLYANSKIY, G.M.; BLAGODETELEVA, Yu.N.

Postmagmatic tectonics of the Khibiny apatite deposit and its
significance for prospecting. Sov.geol. 8 no.2:45-59 F '65.
(MIRA 18:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gorno-
khimicheskogo syr'ya.

VIROVLYANSKIY, G.M.

CL

Quartz from the Pskem River (western Tyan Shan).
G. M. Virovlyanskii. *Mem. soc. russe mineral.* **67**,
285-46 (1938); *Khim. Referat. Zhur.* 1939, No. 6, 22.
Quartz, hematite, epidote, chlorite and calcite were found
in the veins. Four generations of quartz are described.
On the basis of paragenetic relationships, character of the
doubles, vicinals and habitus of the crystals of quartz, V.
makes an attempt to det. the temp. limits of the crystn.
of the described quartz. Combining his conclusions with
mineragenetic schemes of Mancher and Kalb he refers the
1st obelisk-like generation to 310-30° and considers that
in this scheme it will occupy an independent place as a
new intermediate type. For the 4th generation the lower
temp. limit is 180°.   W. R. Henn

A S D I L A   METALLURGICAL LITERATURE CLASSIFICATION

VIRGVLYANSKIY, G.M

The minerogenetic importance of vicinal formations on the faces of quartz. G. M. Virgvlyanskiy. *Mem. soc. russe minéral.* 67, 146 (1938); *Khim. Referat Zhur.* 1939, No. 6, 22. — A study of the vicinals on the faces of the basic rhombohedron of quartz crystals did not indicate their minerogenetic importance as proposed by G. Kalb (cf. *C. A.* 29, 3571). — W. R. Henn

8

A S M - S L A   METALLURGICAL LITERATURE CLASSIFICATION

VIROVTSA,A.M., prof.; MAUYERER, V.G., inzh.; TROITSKIY, B.V., inzh.; IVANOV, V.F., inzh.; PETROVA, Ye.F., inzh.; BARVENKO, Ye.I., inzh.; SHISHKIN, V.N., inzh.

[Tables of Gauss-Kruger coordinates for latitudes $32°$ -$80°$ at 5' intervals and for longitudes $0°$-$6°$ at $7\frac{1}{2}$' intervals and tables of side and area dimensions of trapezoids in topographic surveys; Krasovskii's ellipsoid]Tablitsy koordinat Gaussa-Kriugera dlia shirot ot $32°$ do $80°$ cherez 5' i dlia dolgot ot $0°$ do $6°$ cherez $7\frac{1}{2}$' i tablitsy razmerov ramok i ploshchadei trapetsii topograficheskikh s"emok ellipsoid Krasovskogo. 2. izd., ispr. i dop. Moskva, Izd-vo geodez. lit-ry, 1961. 512 p.   (MIRA 15:9)

1. Russia (1923- U.S.S.R.)Glavnoye upravleniye geodezii i kartografii.

(Coordinates)

26393
S/032/6·/027/008/018/020
B124/B215

Device for measuring...

The shields are adjusted by guides 16 and fixed in position by stop screws
17. The probes, made of pointed molybdenum or tungsten wire are 27 mm
in length and 0.5 mm in diameter, and are insulated from the shields by
lundum tubes. Tantalum plates press the probes onto the specimen The
whole system is placed in a molybdenum glass envelope. The current passing
through the specimen is measured by a УIT-6 (UTT-6) transformer and an
ЭЛА, ACT (ELA, AST) ammeter. Amperage is controlled by a РНО-20 (PNO-20)
autotransformer. The voltage drop at the specimen is controlled with an
ЛВ-9-2 (LV-9-2) tube voltmeter, and its temperature is regulated by a
tungsten-rhenium thermocouple and an МП(MP) micropyrometer. The device
may be used for measuring the resistivity of specimens 10 mm long and 4 mm
in diameter. The error of measurement is 5.2 %. The results obtained
for titanium carbide (linear dependence of resistivity on temperature)
are in good agreement with those obtained by N. V. Kolomoyets, V. S.
Neshpor, G. V. Samsonov, and S. A. Semenkovich (Ref. 2: Zhurnal tekniches-
koy fiziki, 28, 1282 (1952)). There are 3 figures and 2 references:
1 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language
publications reads as follows: F. Glaser, D. Moskowitz, Powd. Met. Bull.
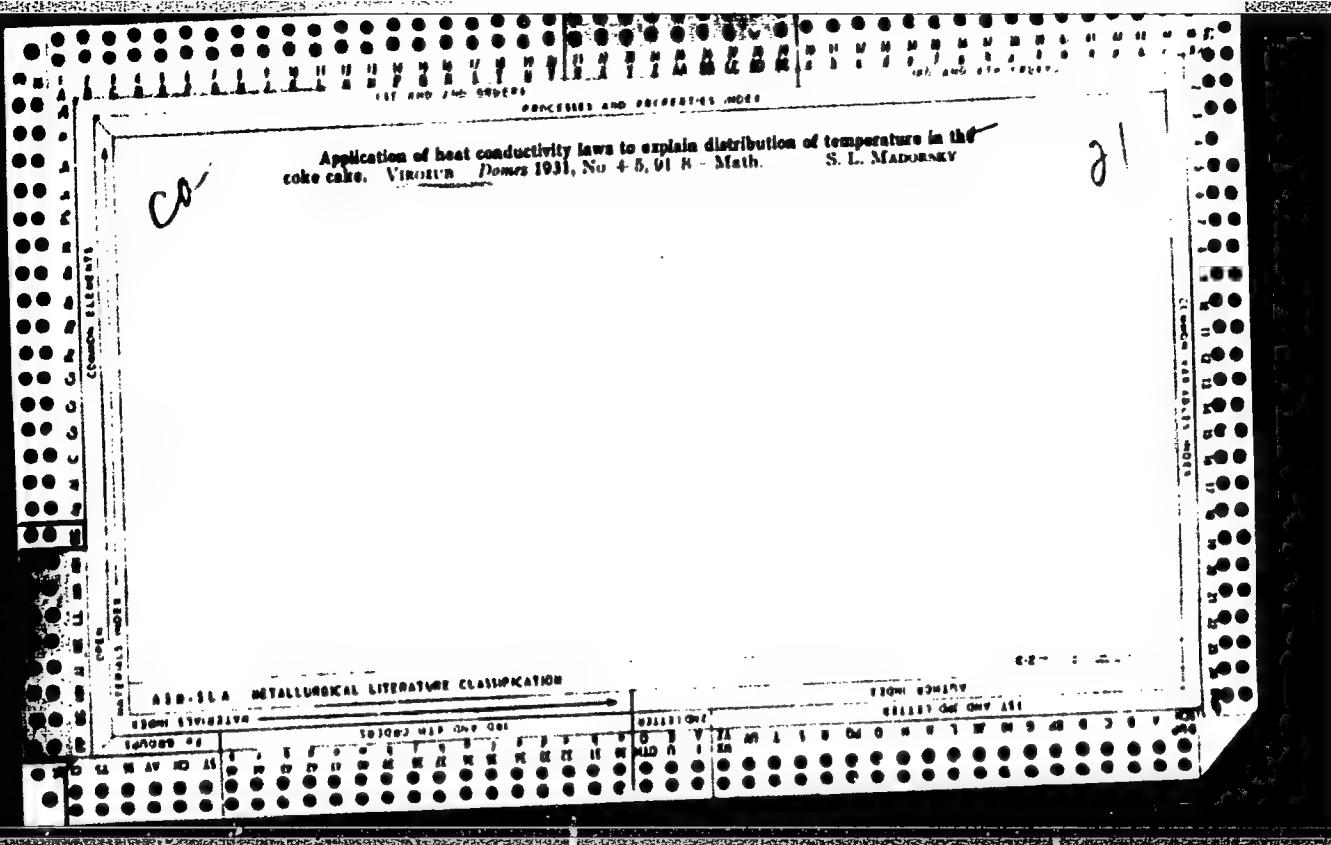6, 178 (1953).

Card 2/4

26393
S/032/61/027/008/018/020
B124/B215

Device for measuring...

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov Akademii
nauk USSR (Institute of Powder Metallurgy and Special
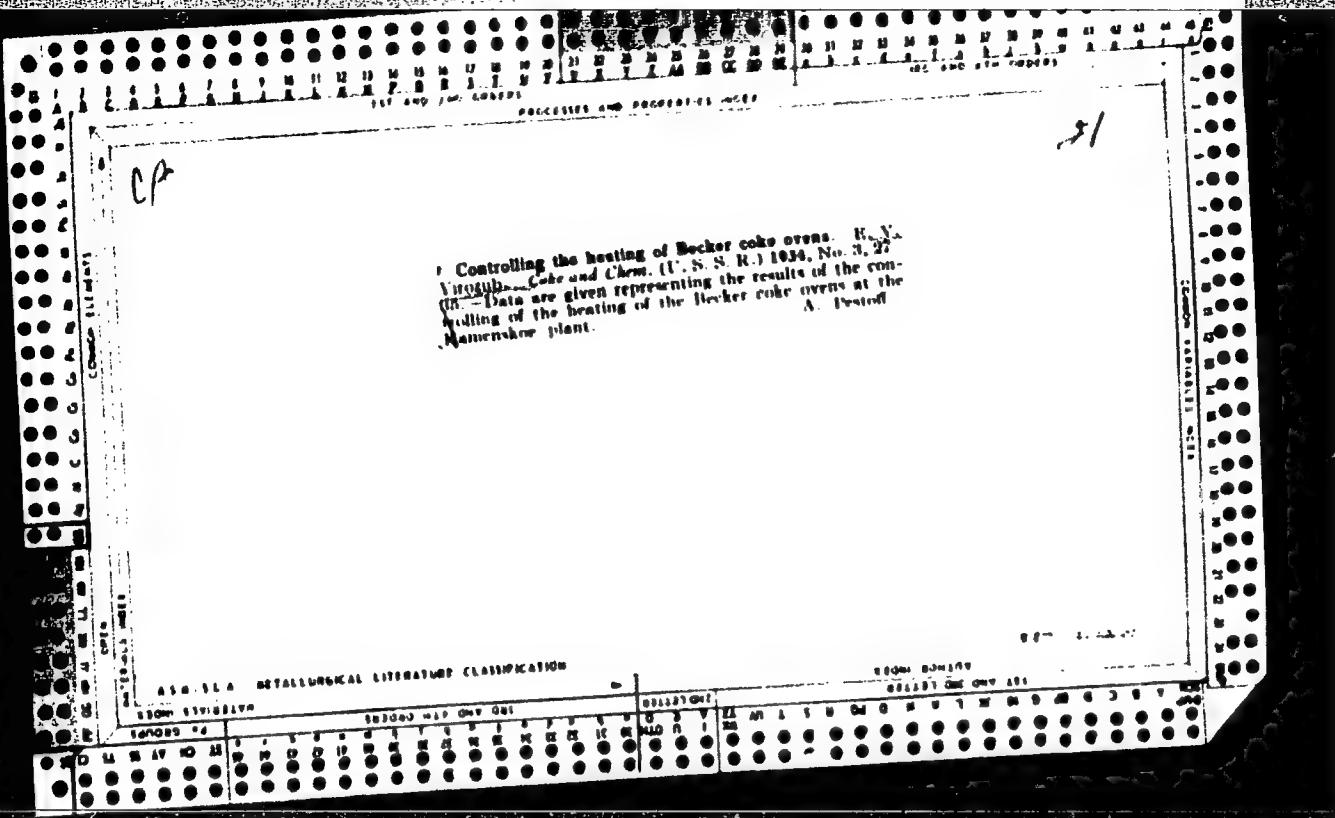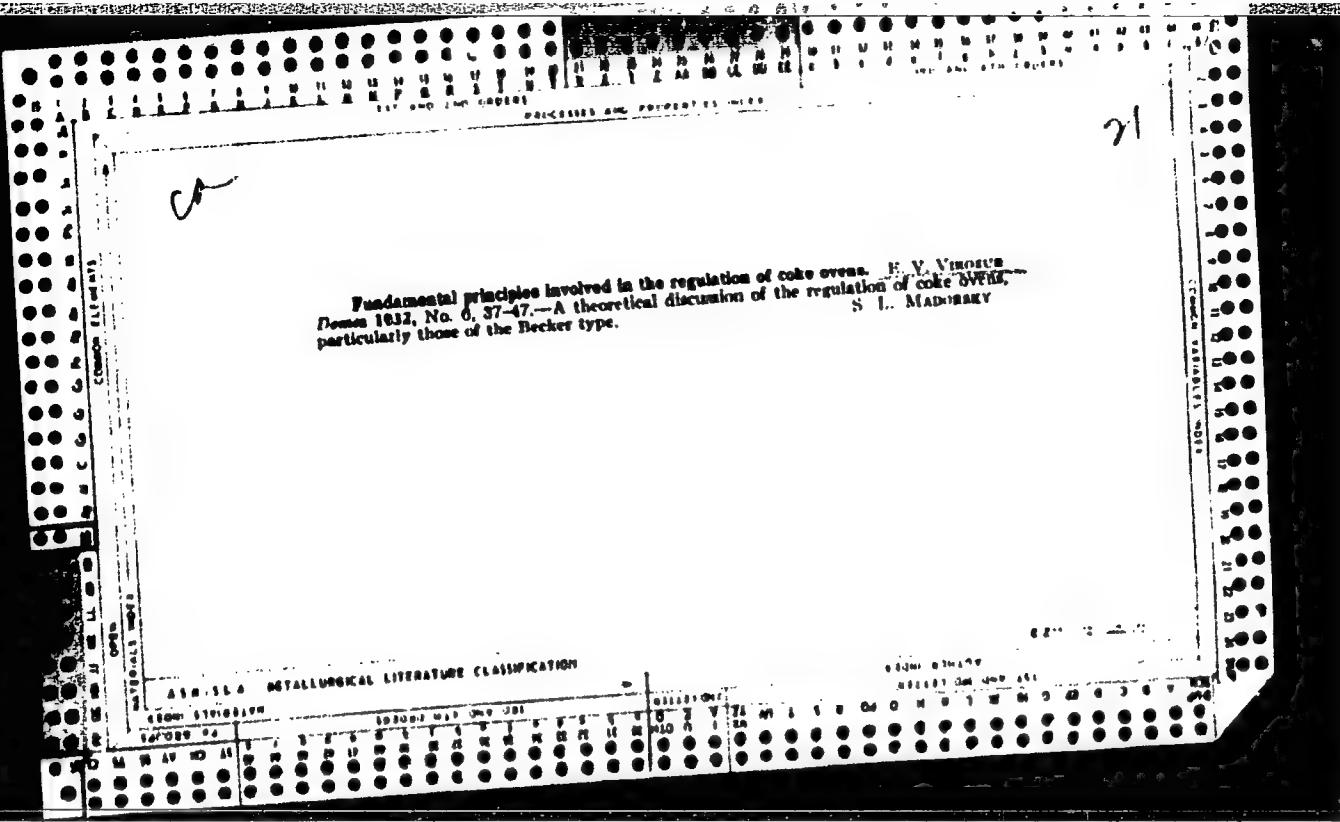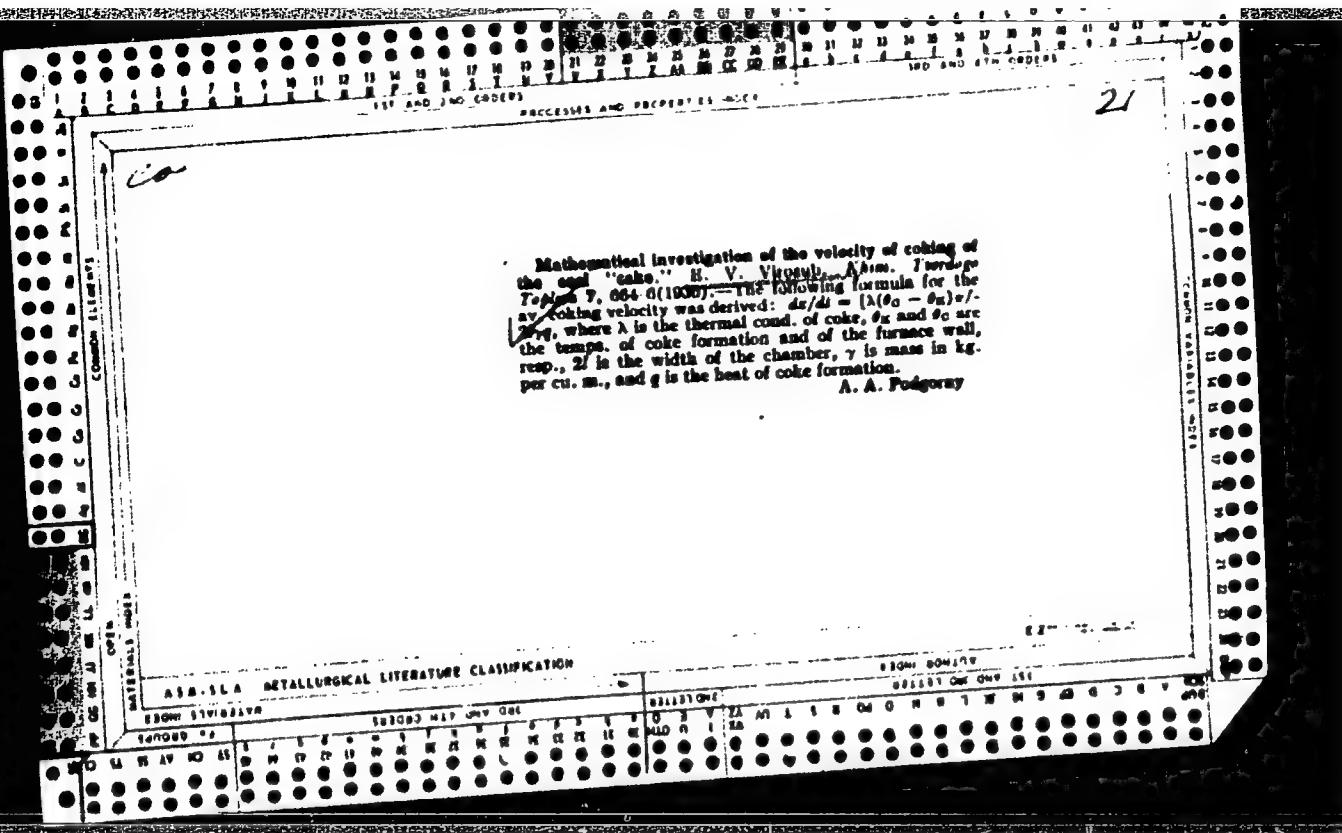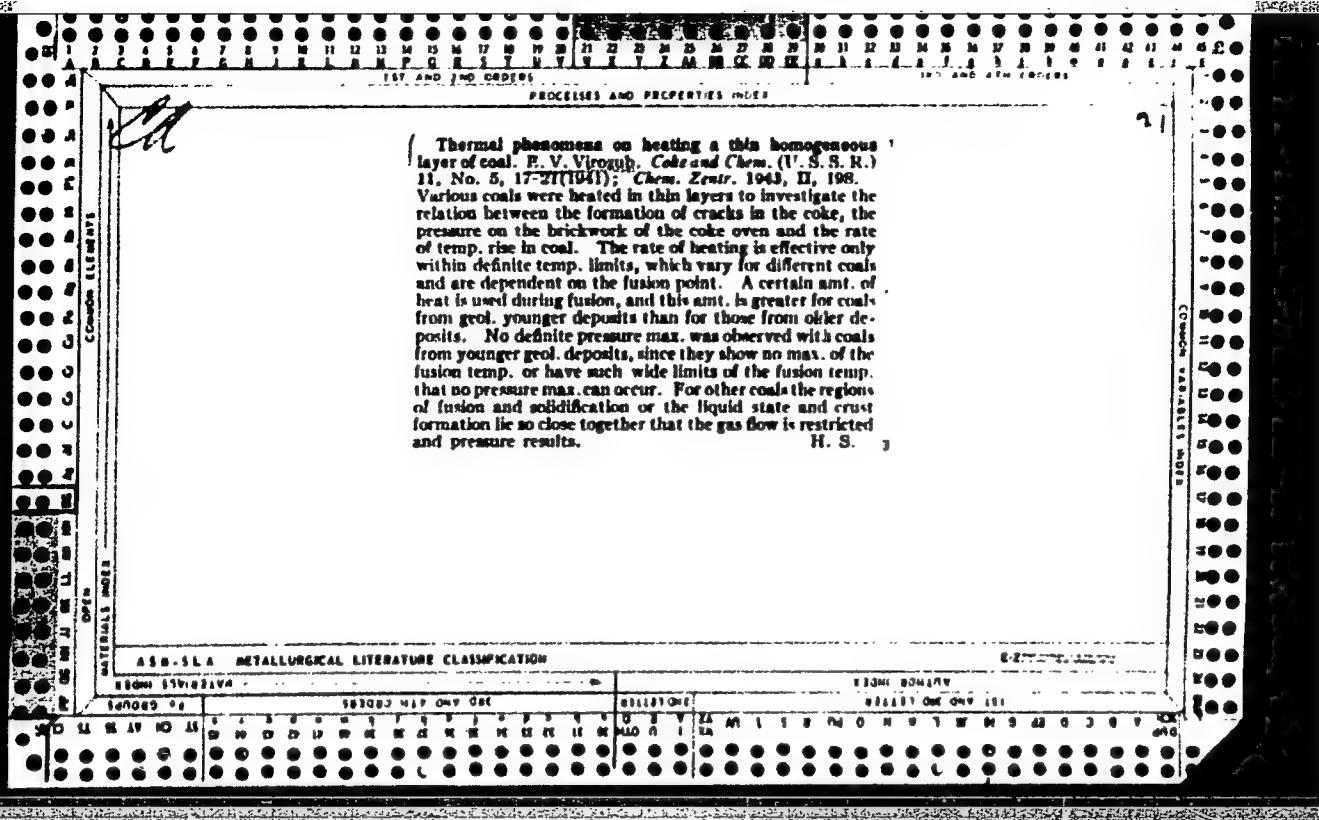Alloys of the Academy of Sciences UkrSSR)

Card 3/4

Application of heat conductivity laws to explain distribution of temperature in the coke cake. VIROZUB   *Domes* 1931, No 4-5, 91 R - Math.   S. L. MADORSKY

METALLURGICAL LITERATURE CLASSIFICATION

Efficiency of coke ovens. A. A. Agroskin and R. V. Nemzer. *Iboun* 1931.
No 12, 48-62. Methods for detg. coke-oven efficiency are discussed, the following factors being considered: (1) consumption of coke-oven gas for heating in cu. m./hr.; (2) heat value of gas in cals. cu. m.; (3) production in tons of coal/hr.; (4) amt. of product of combustion of gas per cu. m. of coke-oven gas; (5) heat value of product of combustion leaving regenerator; (6) amt. of air required for burning 1 cu. m. gas; (7) heat content of 1 cu. m. of air entering regenerator; (8) sensible heat per cu. m. of coke-oven gas; (9) heat losses due to radiation through the walls of the oven in cals./hr. Formulas, tables and chem. analyses of gases are given.   S. L. Madorsky

CP

Controlling the heating of Becker coke ovens. K. V. Vinogub... Coke and Chem. (U. S. S. R.) 1934, No. 3, 22 CR.—Data are given representing the results of the controlling of the heating of the Becker coke ovens at the Kamenskoe plant.
A. Pestoff

Fundamental principles involved in the regulation of coke ovens. E. V. VINOGUE. *Domon* 1932, No. 6, 37-47.—A theoretical discussion of the regulation of coke oven, particularly those of the Becker type.
S. L. MADORSKY.

METALLURGICAL LITERATURE CLASSIFICATION

Mathematical investigation of the velocity of coking of the coal "cake." H. V. Vinogud. Akim. *Toplago Teplo.* 7, 664-6(1936).—The following formula for the av. coking velocity was derived: $dx/dt = (\lambda(\theta_0 - \theta_x)x)/2x\gamma q$, where λ is the thermal cond. of coke, θ_x and θ_0 are the temps. of coke formation and of the furnace wall, resp., $2l$ is the width of the chamber, γ is mass in kg. per cu. m., and q is the heat of coke formation.

A. A. Podgorny

PROCESSES AND PROPERTIES INDEX

Thermal phenomena on heating a thin homogeneous layer of coal. B. V. Virozub. *Coke and Chem.* (U. S. S. R.) 11, No. 5, 17–21(1941); *Chem. Zentr.* 1943, II, 198. Various coals were heated in thin layers to investigate the relation between the formation of cracks in the coke, the pressure on the brickwork of the coke oven and the rate of temp. rise in coal. The rate of heating is effective only within definite temp. limits, which vary for different coals and are dependent on the fusion point. A certain amt. of heat is used during fusion, and this amt. is greater for coals from geol. younger deposits than for those from older deposits. No definite pressure max. was observed with coals from younger geol. deposits, since they show no max. of the fusion temp. or have such wide limits of the fusion temp. that no pressure max. can occur. For other coals the regions of fusion and solidification or the liquid state and crust formation lie so close together that the gas flow is restricted and pressure results.   H. S.

ASM-SLA   METALLURGICAL LITERATURE CLASSIFICATION

21

Method for the calculation of the temperature of the flame in heating with blast-furnace gas. E. V. Yroqub. Coke and Chem. (U. S. S. R.) 9, No. 0, 10-21(1939); Chem. Zentr. 1940, I, 3066.—A new method is developed for the calcn. of the temp. of the flame in the heating of coke ovens with blast-furnace gas. By the use of this method it is possible to appraise those factors which affect the productive capacity of coke ovens so heated.
M. G. Moore
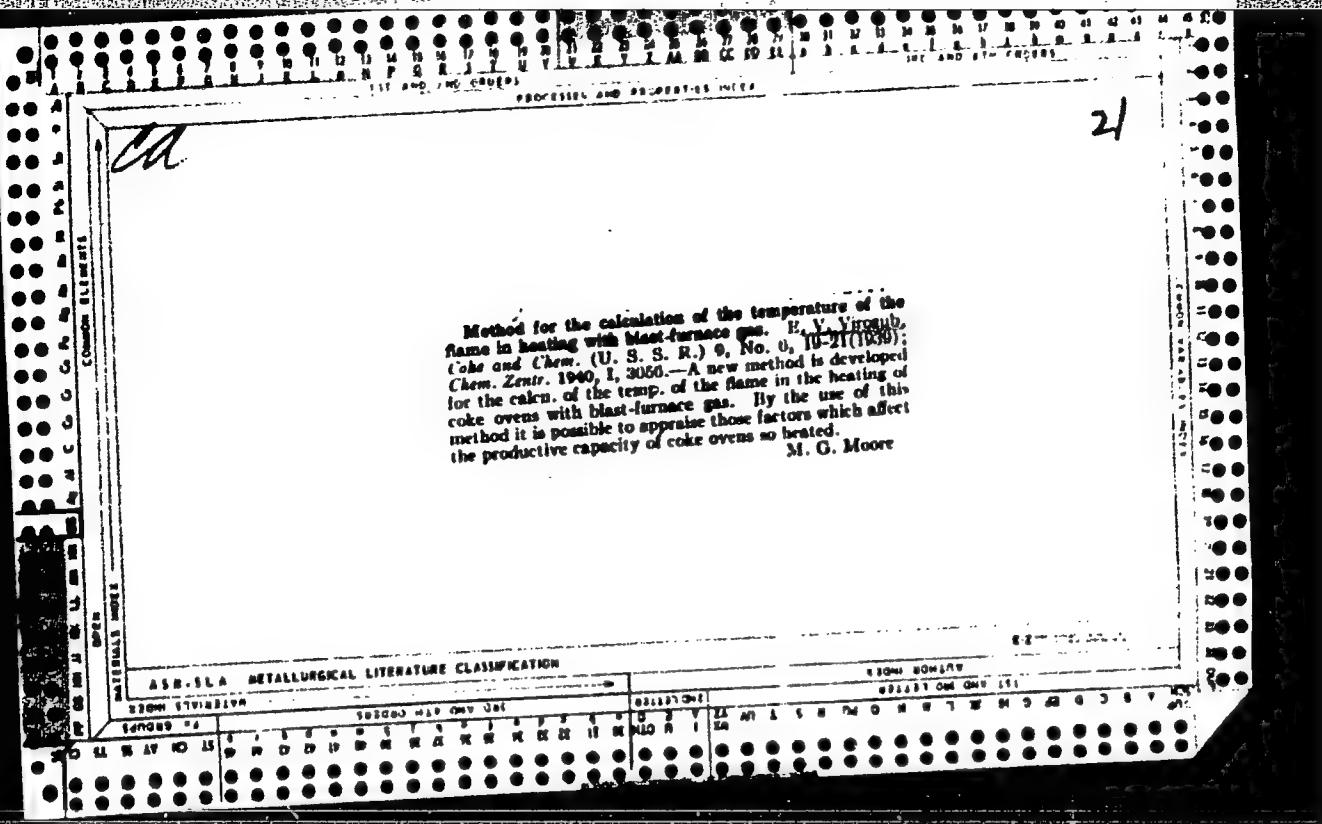
(3)

METHOD OF CALCULATING THE FLAME TEMPERATURE IN COKE-
OVENS HEATED WITH BLAST-FURNACE GAS. E. V. Virozub. (Koks
i Khimya, 1939, No. 6, pp. 18-21). (In Russian). A
mathematical discussion. The formula derived is used in a
specimen calculation and for evaluating the factors affecting
the output capacity of the coke-ovens. The factors studied
were the preheating of the air and gas, and the ratio of the
air-gas mixture.

VIROZUB, I.D., kand. med.nauk   (Donetsk)

Treatment of spinal traumas combined with injury of the spinal
cord during the acute period. Vop. neirokhir. 27 no.4:28-31
Jl-Ag'63   (MIRA 17:2)

1. Neyrokhirurgicheskaya klinika nauchno-issledovatel'skogo
instituta travmatologii i ortopedii (dir. - kand. med. nauk
T.A. Revenko).

VIROZUB, I.D.

Characteristics of medulloblastomas of the cerebellum. Zhur.
nerv. psikh. 60 no. 4:434-439 '60.   (MIRA 14:4)

1. Ukrainskiy neyrokhirurgicheskiy institut (dir. - prof. A.I.
Arutyunov) i Stalinskiy nauchno-issledovatel'skiy institut travmatologii
i ortopedii (dir. - kand.med.nauk T.A. Revenko).
                    (CEREBELLUM--TUMORS)

USSR / General Problems of Pathology. Tumors.   U-7
          Comparative Oncology. Tumors in Humans.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Author : Chepkiy L. P., Virozub I. D.
Inst   : Dnepropetrovsk Medical Institute.
Title   : Disturbance of Thyroid Gland Function and of the
          Cortical-Subcortical Neurodynamics in Cerebral
          Tumors.

Orig Pub: Sb. nauchn. tr. Dnepropetr. med. in-ta, 1957, 3,
          282-285.

Abstract: A study was made of the functional condition of
          the thyroid gland by means of J^{131} on 33 patients
          with super-tentorial tumors with varying localiza-
          tion and structure. The data obtained was compared
          with the results of an investigation of the Higher
          Nervous Activity. It was established that a

Card 1/3

USSR / General Problems of Pathology. Tumors.   U-7
          Comparative Oncology. Tumors in Humans.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Abstract: definite correlation existed between the extent
          of a disturbance of cortico-subcortical neurody-
          namics, and the degree of a disturbance of the
          thyroid gland manifested in patients with cerebral
          tumors. Patients with malignant, and rarely with
          benign tumors, with manifestations of general
          cerebral symptoms, and marked depression of the
          cortical-subcortical neurodynamics and thyroid
          gland function, was observed. In malignant intra-
          cerebral tumors (multiform spongioblastoma) dis-
          turbances in the thyroid gland function and of the
          cortico-subcortical neurodynamics was pronounced.
          In benign tumors, these changes are less clearly
          manifested. When the tumors are localized in the
          mesencephalic and diencephalic area, a pronounced

Card 2/3

29

USSR / General Problems of Pathology. Tumors.   U-7
        Comparative Oncology. Tumors in Humans.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 70897.

Abstract: disturbance of the cortical-subcortical neurodyna-
         mics and the thyroid gland function were observed,
         although the conditioned reflex activity was
         retained. A diffuse depression of all the sectors
         of the Central Nervous System, accompanied by
         depression of the thyroid gland function is an
         indication of a poor prognosis.

Card 3/3

VIROZUB, I.D., KOROL', A.P.

Disorders of certain unconditioned reflex reactions in tumors of the
posterior cranial fossa [with summary in French]. Zhur.nevr. i psikh.
58 no.5:550-554 '58   (MIRA 11:7)

1. Ukrainskiy nauchno-issledovatel'skiy institut neyrokhirurgii
(dir. - prof. A.I. Arutyunov), Kiyev.
            (REFLEXES,
                unconditioned, in tumors of posterior cranial fossa
                (Rus))
        (BRAIN NEOPLASMS, physiology
                posterior cranial fossa, unconditioned reflex changes
                (Rus))

VIROZUB, I.D., YANOVSKIY, G.I. (Kiyev)

"Gunshot wounds of the skull and brain; surgical anatomy and operative srugery" by E.M. Margorin. Reviewed by I.D. Virozub, G.I. IAnovskii. Nov.khir.arkh. no.2:124-126 Mr-Ap '58 (MIRA 11:6)
            (HEAD--WOUNDS AND INJURIES)
            (MARGORIN, E.M.)

1. VIROZUB, I. D. and SERGIYENKO, T. M.

2. USSR (600)

4. Brain

7. Method of progressive increase of intracranial pressure in continuous experiment in animals. Vop.neirokhir. 16 no. 6, 1952.

9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

VIROZUB, I.D.

Focal and general brain reactions in tumors of the cerebellum of varying histological structure. Probl.neirokhir. 4:49-58 '59.

(MIRA 13:11)

(CEREBELLUM--TUMORS)

Virozub, IV

68-9-5/15

AUTHOR: Virozub, I.V. (Cand.Tech.Sc.)

TITLE: Stability of the Hydraulic and Thermal Conditions of a
Heating System for Coke Ovens (Ustoychivost' gidravlichesk-
ogo i teplovogo rezhimov otopitel'noy sistemy koksovykh
pechey)

PERIODICAL: Koks i Khimiya, 1957, Nr 9, pp.22-28 (USSR)

ABSTRACT: The control of heating coke ovens by the amount of heat
and air supplied and hydraulic conditions of the heating
system are discussed. Calculations of the relationship
of pressure conditions at various points of the heating sys-
tem are carried out. The relation of air and gas consump-
tion and the calorific value of gas is shown in Fig.2 and
the dependence of the quantity of combustion products on
the calorific value of gas (at excess air 1.15)in Fig.3.
There are 3 figures.

ASSOCIATION: UKhIN.

AVAILABLE: Library of Congress.

Card 1/1

PHASE I BOOK EXPLOITATION   SOV/5376

Akademiya nauk Ukrayins'koyi RSR. **Kyyiv**. Instytut teploenerhetyky.

Teploobmin ta hidrodynamika (Heat Exchange and Hydrodynamics) Kyyiv,
Vydavnytstvo AN UkrSSR, 1959. 76 p. (Series: Its: Zbirnyk prats',
vyp. 16) 1,000 copies printed.

Sponsoring Agency: Akademiya nauk Ukrayins'koyi RSR. Instytut
teploenerhetyky.

Editorial Board: Resp. Secretary: A. Sh. Dorfman, Candidate of
Technical Sciences, O. S. Yeremenko, Candidate of Technical
Sciences, O. O. Kremn'ov, Candidate of Technical Sciences,
V. I. Kuznetsov, Candidate of Technical Sciences, P. I. Lavrov,
Candidate of Technical Sciences, M. M. Nazarchuk, Candidate of
Technical Sciences, V. I. Tolubyns'kyy, Corresponding Member,
Academy of Sciences UkrSSR, I. T. Shvets', Academician, Academy
of Sciences UkrSSR. Resp. Ed.: H. M. Shchoholev, Candidate of
Technical Sciences; Ed.: I. V. Kisina; Tech. Ed.: V. I. Yurchy-
shyn.

Card-1/4

Heat Exchange (Cont.)   SOV/5376

PURPOSE : This collection of articles is intended for scientific
   workers and engineers concerned with the construction of turbines.

COVERAGE: The booklet, published in Ukrainian, contains 10 articles
   dealing with problems of improving gas turbines. Results of
   investigations of processes in the combustion chamber and of
   heat-exchange processes taking place in turbine components are
   given. Aerodynamic problems of cascades of **turbine blades** and
   of tubes are discussed and theoretical research in boundary-
   layer problems is considered. Each article is follow by a brief
   résumé in Russian. No personalities are mentioned. There are
   no references.

TABLE OF CONTENTS:

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Heat Exchange (Cont.)   SOV/5376

Card 3/4

VIROZUB, I.V.; BELETSKAYA, A.F.; PONOMARENKO, M.S.

Letters to the editors. Koks i khim. no.7:58-59 '65.

(MIRA 18:8)

1. Ukrainskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.

UIKE29 81 LI 7

68-11-6/11

AUTHORS: Virozub, I.V., Voloshin, A.I. and Shvarts, S.A.,
             Candidates of Technical Sciences.

TITLE: Improvement of Thermal and Technological Operating Conditions
             of Coke Ovens (Sovershenstvovaniye teplovogo i tekhnolog-
             icheskogo rezhimov koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1957, No.11, pp. 29 - 35 (USSR)

ABSTRACT: Review in general terms of the improvements in coking
             practice during the last 40 years.

             There are 4 figures.

ASSOCIATION: UKhIN

AVAILABLE: Library of Congress

Card 1/1

68-1-5/22

AUTHORS: Virozub, I.V., Voloshin, A.I., Kezmina, V.V., and
           Sherman, M.Ya.

TITLE: The Control of Thermal Conditions of Coke Ovens (Regul-
           irovaniye teplovogo rezhima koksovykh pechey)

ABSTRACT: Some relationships between various parameters affecting
           thermal conditions of coke ovens are discussed in order to
           indicate the basis for choosing some parameters as sources of
           impulses for the automatic control of the coke oven heating
           system. UKhIN and TsLA (Central Laboratory of Automation)
           proposed a system of automatic control of thermal conditions
           of coke ovens which secures a constant supply of heat and a
           constant excess of air coinciding at a constant temperature
           of air in the tunnel, with a constant suction at the top of
           the regenerators in the ascending stream. The proposed system
           is described in some detail (Figs. 1 and 2). It was installed
           on the No. 1 battery of the Zaporozhsk Coke Oven Works
           (Zaporozh'ye koksokhimicheskiy zavod) and operated for about
           two years with satisfactory results. In addition to the
           described method of direct control of the supply of heat,
           three other indirect methods were installed and operated in the
           Soviet Union: 1) a scheme proposed by V.G. Mosyakov. The
Card1/3

The Control of Thermal Conditions of Coke Ovens.   68-1-5/22

control of gas supply is based on the stability of suction at the top of the gas regenerators on the ascending stream and that of the draught on the descending stream. The scheme was installed on the Zaporozhsk Coke Oven Works; its operation is described in Koks i Khimiya, 1958, No.1, pp. 25-29. 2) On the Magnitogorsk Metallurgical Combine (Magnitogorskiy Metall-urgicheskiy Kombinat) an automatic control of heating coke ovens is in operation. This is based on the maintenance of a constant suction in the waste flues mains on both sides of the battery and a constant content of oxygen in the combustion products by varying the addition of coke oven gas (ovens are heated with a mixture of coke oven and blast furnace gas). The method is described in this issue, pp. 30-35. 3) On the Zhdanovsk Coke Oven Works (Zhdanov   koksokhimicheskiy zavod, the method of controlling the supply of air for combustion proposed by D.A. Amstislavskiy was based on the maintenance of constant suction at the top of the regenerators on the ascending stream. With this method, variations of the coefficient of excess air during the period between reverses are removed. The deficiency of the method is that air supply changes with changes in air temperature and a low accuracy of the control due to low suction

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·The Control of Thermal Conditions of Coke Ovens.   68-1-5/22

at the top of the regenerators. This method with some modi-
fications was used for the above described TsLA-UKhIN method.
In conclusion, the authors point out that further studies of the
methods used is necessary in order to choose the best elements
from each method for the development of a scheme for complete
automation of heating coke ovens.
There are 4 figures and 6 Slavic references.

ASSOCIATIONS: UKhIN and TsLA

AVAILABLE: Library of Congress
Card 3/3

VOLOSHIN, A.I.; VIROZUB, I.V.; KAZMINA, V.V.

Heat consumption in coking and ways for its reduction. Koks i khim.
no.10:20-24 '62.   (MIRA 16:9)

1. Ukrainskiy uglekhimicheskiy institut.
                (Coke ovens)

VIROZUB, I.V.

VIROZUB, I.V., kand.tekhn.nauk

Stability of the hydraulic and thermal conditions of the heating system of coke ovens. Koks i khim.no.9:22-28 '57. (MIRA 10:12)

1. Ukrainskiy uglekhimicheskiy institut.
(Coke ovens)

VIROZUB, I.V.; VOLOSHIN, A.I.; LGALOV, K.I.

Heat expended for coking. Koks i khim. no.5:23-29 '60.
(MIRA 13:7)

1. Ukrainskiy uglekhimicheskiy institut (for Virozub, Voloshin).
2. Koksokhimstantsiya (for Lgalov).
(Coal—Carbonization)

VIROZUB, I.V., kand. tekhn. nauk; VOLOSHIN, A.I., kand. tekhn. nauk; SHVARTS, S.A., kand. tekhn. nauk.

Improving the heating and operating of coke ovens. Koks i khim.
no.11:29-35 '57.   (MIRA 10:12)

1. Khar'kovskiy nauchno-issledovatel'skiy uglekhimicheskiy institut.
(Coke ovens)

VIROZUB, I.V.

PHASE I BOOK EXPLOITATION   SOV/2127

5(1)

Koksokhimicheskoye proizvodstvo; sbornik statey (By-Product Coking Industry; Collection of Articles) Moscow, Metallurgizdat, 1959. 240 p. 2,500 copies printed.

Ed.: I. B. Filippov; Ed. of Publishing House: L. A. Morynin; Tech. Ed.: P. G. Islent'yeva.

PURPOSE: The book is intended for engineers and technicians in the by-product coking industry and in scientific research institutes. The book may also be used by students in secondary and higher technical schools.

COVERAGE: The articles in this collection on the by-product coking industry appeared critically either in the periodical Koks i khimiya (Coke and Chemistry) or in other publications during 1955-1958. The book discusses the development of raw-material reserves for coking, technology of the manufacture of coke, quality of coke and further enlargement of the number of chemical coking products obtained. Some articles are devoted to new procedures for preparing and beneficiating coals, new methods for coking, and to the mechanization and automation of industrial processes. References accompany individual articles.

Grekov, I. G., and ... Lazovskiy, and N. G. Pil'chuk. [NIICh]. The Basic Principle for the Preparation of Coals for Coking by Crushing   76

Popovich, I. Kh. [Candidate of Technical Sciences, UKhIN]. Densification of Coking Coals in Heavy Media   98

Kamletiv, V. A. [NIIGidrougleobogashcheniy], and A. L. Yurovskiy [IGI AN SSSR]. Centrifugal Densification of Coking Coals   119

Ritman, ... [Gosplan SSSR]. Conservancy of the Quality Indices of Blast-Furnace Coke   137

Pyrolkhov, I. L., and N. K. Kulakov [Giprokoks]. Progress in Coke-Oven Construction   142

Filippov, I. B. [Candidate of Technical Sciences, Gosplan SSSR]. Improvement in the Operation and Lengthening of the Life of Coke Ovens   136

Shmeltser, A. ..., V. ... Volozhin, and S. A. Slavdin. [Candidates of Technical Sciences, UKhIN]. Improvement of the Heating and Technological Regimes of Coke Ovens   147

Torlin, ..., L. I. Adamson, and N. A. Agarkova. [VUKhIN]. Coking of the Eastern Coals with the Use of Briquets   185

Lesos, ... [Gosplan SSSR]. Partial Mechanization and Automation in Coking Plants   157

Rubinchik, ... [Metallurgist], and S. A. Gurevov [Gosplan SSSR]. Pere-Coke and Pis Use in the Blast Furnace   84

Dmitriev, ... [Dneprospetsstal i metallurgicheskiy kombinat - Kombdnepro-Metallurgical Kombine]. Methods of Decreasing the 60-83 mm Fraction of Blast-Furnace Coke   217

Litvinenko, M. S., and I. M. Esaulenko [UKhIN]. Property of the Development of Processing Chemical Obtained in the By-Product Coking Industry in the USSR, During 1959-1965   217

Reslavich, I. K. [UKhIN]. Progress in Developing a Larger Number of Primary Products in the Processing of Coal Tar   234

AVAILABLE: Library of Congress

Card 1/2

VIROZUB, I·V.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT   AID 151 - I

Call No.: TP336.V38

BOOK
  Authors: VIROZUB, I. V., TAKHTAMYSHEV, E. Ya., and TSIPEROVICH, M. V.
  Full Title: MECHANICAL EQUIPMENT IN COKE-CHEMICAL PLANTS
  Transliterated Title: Mekhanicheskoye oborudovaniye kokso-khimicheskikh zavodov
Publishing Data
  Originating Agency: None
  Publishing House: State Scientific and Technical Publishing House of Literature
                     on Ferrous and Nonferrous Metallurgy.
                            No. pp.: 516   No. of copies: 3,000
  Date: 1952
  Editorial Staff   Tech. Ed.: None
    Editor: Kvasha, A. S.   Appraisers: Kvasha, A. S.
    Editor-in-Chief: None   and Shepelev, I. G.

Text Data
  Coverage: The authors describe basic equipments and technological processes
             for the production and enrichment of coke, and give the analytical
             expressions for computation of essential data on various intermediate
             processes such as crushing, enrichment, dust removal, washing, settling,
             filtration, and drying. Formulas for computation of stresses in
             different chemical apparatuses and the table of materials resistant
             to chemical action are also given. The last part of the book contains

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Mekhanicheskoye oborudovaniye kokso-khimicheskikh zavodov   AID 151 - I

a description of mechanical equipment for the repair shop.

The analytical approach in the development of chemical process and in design of equipment may be of interest for specific purposes.

Purpose: A textbook for students of the technical colleges and schools, and for factory personnel.

Facilities: Professors Doroshenko, Voyslav, Korzukhin and Gus'kov developed the theory of enrichment of coke, and Professor Doctors V. P. Lyashchenko and L. B. Levenson the theory of enriching equipment and crushers. Prof. G. O. Chechot organized scientific research institutes for the study of the mechanical processing of minerals. N. M. Zhavoronkov, M. D. Kuznetsov, M. E. Posin, K. N. Shabalin and others worked on the theory of chemical processes in the scrubber and on the process of absorbtion. Tregubov, Obryadchikov, Khozryakov, Gel'perin gradually developed the theory of rectification apparatus. Academician M. V. Kirpichev introduced the theory of design of the experimental models of heat exchangers used in the production of coke. The new coke industry was built not only in the southern part of the USSR but also in the eastern, the Ural-Kuzbass.

No. of Russian and Slavic References: 21 (from 1937 to 1950)
Available: Library of Congress.

68-9-5/15

AUTHOR: Virozub, I.V. (Cand.Tech.Sc.)

TITLE: Stability of the Hydraulic and Thermal Conditions of a Heating System for Coke Ovens (Ustoychivost' gidravlichesk-ogo i teplovogo rezhimov otopitel'noy sistemy koksovykh pechey)

PERIODICAL: Koks i Khimiya, 1957, Nr 9, pp.22-28 (USSR)

ABSTRACT: The control of heating coke ovens by the amount of heat and air supplied and hydraulic conditions of the heating system are discussed. Calculations of the relationship of pressure conditions at various points of the heating system are carried out. The relation of air and gas consumption and the calorific value of gas is shown in Fig.2 and the dependence of the quantity of combustion products on the calorific value of gas (at excess air 1.15) in Fig.3. There are 3 figures.

ASSOCIATION: UKhIN.

AVAILABLE: Library of Congress.

Card 1/1

AUTHOR: Eremenko, O. S., Horbatyy, Yu. P. and Virozub, I. O.

TITLE: On radial equilibrium in a turbine rotor

PERIODICAL: Referativnyy zhurnal, Silovyye ustanovki, no. 4, 1962, 89, abstract 42.4.562. "Collection prats'. in-ta teploenerg" AN URSR, 1961, no. 22, 55–59

TEXT: An approximate method for determniation of flow parameters in a turbine rotor is considered with centrifugal and Coriolis accelerations taken into account. It was assumed that the liquid is ideal and non-compressible, the flow non-turbulent in absolute motion, and the cascade cylindrical. Approximate formulas were obtained for the dependence of velocity and pressure on the radius of the inter-blade channel section, and on the distance along the turbine axis.

[Abstracter's note: Complete translation.]

Card 1/1

VIROZUB, Ioel' Vul'fovich; KUSTOV, Boris Iosifovich [deceased]; SHVARTS,
     S.A., otv.red.; SINYAVSKAYA, Ye.K., red.izd-va; ANDREYEV, S.P.,
     tekhn.red.

     [Heat processes in coke ovens; heat engineering and the technology
     of the coking process] Teplovoi rezhim koksovykh pechei; teplo-
     tekhnika i tekhnologiia protsessa koksovaniia. Khar'kov, Gos.
     nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
     1960. 237 p.   (MIRA 13:9)
       (Coke ovens--Combustion)   (Heat--Transmission)

ACC NR: AT7002159   SOURCE CODE: UR/0000/66/000/000/0097/0102

AUTHOR: Virozub, I. Ye; Turtushkin, N. A.

ORG: Institute of Technical Thermophysics AN UkrSSR (Institut tekhnicheskoy
teplofiziki AN UkrSSR)

TITLE: Aerodynamic losses due to the pipe branches in the air cooler of the GTU-25-700
gas turbine installation

SOURCE: AN UkrSSR. Termodinamika teplovykh dvigateley (Thermodynamics of heat
engines). Kiev, Izd-vo Naukova dumka, 1966, 97-102

TOPIC TAGS: aerodynamic design, gas turbine, turbine compressor

ABSTRACT: Full-scale tests of the GTU-25-700 gas turbine installation in operation
at the Kiev Heat and Electric Power Plant No. 2 show that considerable losses of pres-
sure take place in the pipe branches of the air cooler between the high- and low-
pressure compressors. It is shown that the aerodynamic losses in these elements may
be considerably reduced by changes in design. A model of the existing air cooler is
shown in Figure 1 with the improved model shown in Figure 2. The difference between
the maximum and minimum static pressures in the second model is less than 200 mm water
gauge, while the corresponding figure for the first model reaches 570 mm. While this
factor certainly affects the operation of the cooler, the reduction in aerodynamic
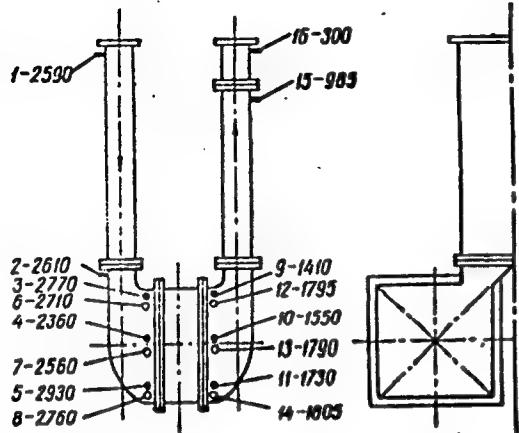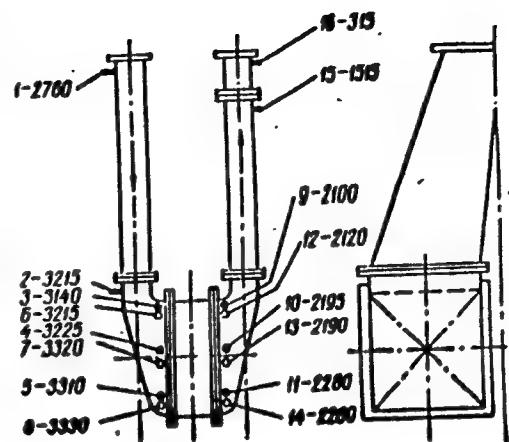
Card 1/3

ACC NR: AT7002159

Fig. 1

Fig. 2

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ACC NR: AT7002159

losses alone results in an increase in the power of the installation. Estimates show that the power may be increased by design modifications of this type by approximately 300-400 kw. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13, 20/ SUBM DATE: 27Jul66

Card   3/3

SOV/81-59-13-46027

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 13, p 253 (USSR)

AUTHOR: ·   Virozub, I.Ye.

TITLE: An Approximate Method for Calculating the Fields of Velocity and
Temperatures in the Passing of a Laminar Flow of a Compressible Liquid
With Heat Exchange Around a Profile

PERIODICAL: Sb. tr. In-t teploenerg. AN UkrSSR, 1958, Nr 14, pp 108 - 116

ABSTRACT: The article has not been reviewed.

Card 1/1

VIROZUB, Ivan Yemel'yanovich; YEREMENKO, Aleksandra Semenovna;
    KHAZANET, S.M., red.izd-va; BEREZOVSKAYA, D.N., tekhn.
    red.

    [Jet engines] Reaktivnye dvigateli. Kiev, Izd-vo AN UKr.SSE,
    1963. 80 p.   (MIRZ 16:11)
             (Jet propulsion)
      (Space vehicles—Propulsion systems)

PHASE I BOOK EXPLOITATION   SOV/6059

Yeremenko, Aleksandra Semenovna, Ivan Yemel'yanovich Virozub, Yuriy Pavlo-
vich Gorbatyy, Ivan Lazarevich Mironenko, and Anna Petrovna Fedosenko

Metody eksperimental'nogo issledovaniya aerodinamiki osevykh turbomashin
(Methods for the Experimental Investigation of the Aerodynamics of Axial Tur-
bomachines). Kiev, Izd-vo AN UkrSSR, 1961. 129 p. 2550 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut teploenergetiki.

Ed. of Publishing House: N. M. Titova; Tech. Ed. : T. R. Liberman.

PURPOSE: This book is intended for technical personnel of scientific research
institutes and plant laboratories concerned with problems of aerodynamic in-
vestigations of the components of the turbine flow-passage area.

COVERAGE: The book deals with some problems of the method of aerodynamic
investigation of parts of steam and gas turbines, measuring technique, and the

Card 1/$ 2

Methods for the Experimental Investigation (Cont.)   SOV/6059

building of experimental models. It describes various types of instruments
for measuring the parameters of two- and three-dimensional flows, methods
of making and calibrating these instruments and also the manufacturing tech-
nology of model turbine blades. It describes also the most frequently used
stands for investigating turbine blade cascades in stationary conditions and in
motion. Candidate of Technical Sciences V. I. Pechuk assisted in the prepa-
ration of the first draft of the manuscript. The authors thank Ye. P. Dyban
for his valuable remarks. There are 41 references: 39 Soviet, 1 English,
and 1 French.

TABLE OF CONTENTS:

Card 2/9

YEREMENKO, Aleksandr Semenovna; VIROZUB, Ivan Yemel'yanovich; GORBATYY,
Yuriy Pavlovich; MIRONENKO, Ivan Lazarevich; FEDOSENKO, Anna
Petrovna; DIBAN, Ye.P., kand. tekhn. nauk, retsenzent;
TITOVA, N.M., red. izd-va; LIBERMAN, T.L., tekhn. red.

[Experimental investigation of the aerodynamics of axial-flow
turbomachines] Metody eksperimental'nogo issledovaniia aerodi-
namiki osevykh turbomashin. Kiev, Izd-vo Akad. nauk USSR, 1961.
129 p.   (MIRA 15:5)

(Turbomachines--Aerodynamics)

YEREMENKO, A.S.[IEremenko, O.S.]; GORBATYY, Yu.P.[Horbatyi, IU.P.];
    VIROZUB, I.Ye.[Virozub, I.O.]

Radial equilibrium in the rotor of a turbine. Zbir. prats'
Inst. tepl. AN URSR no.22:55-59 '61.   (MIRA 16:6)

(Turbines)

VIROZUB, I.Ya. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatyi, IU.P.]; YEREMENKO, A.S.
[IEremenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Some results of the study of a circular lattice.   Zbir. prats' Inst.
tepl. AN URSR no.24:86-90 '62.   (MIRA 16:3)
                                (Turbines)

VIROZUB, I.Ye. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatyi, IU.P.]; YEREMENKO, A.S.
[IEremenko, O.S.]; FEDOSENKO, A.P. [Fedosenko, H.P.]

Aerodynamic studies of a turbine stage with relatively short blades
and variable modes of operation. Zbir. prats' Inst. tepl. AN URSR
no.24:91-97 '62.   (MIRA 16:3)
           (Turbines)   (Fluid dynamics)

YEREMENKO, A.S. [IEremenko, O.S.]; VIROZUB, I.Ye. [Virozub, I.O.]

Radial equilibrium in a turbine stage, and the hypothesis of
cylindrical sections. Dop. AN URSR no.3:379-383 '62.
(MIRA 15:5)

1. Institut teploenergetiki AN USSR. Predstavleno akademikom
AN USSR I.T.Shvetsom [Shvets', I.T.].
(Turbines) (Heat engineering)

S/096/62/000/006/010/011
E032/E314

26.9110

AUTHORS: Virozub, I.Ye., Engineer and Dorfmann, A.Sh.,
            Candidate of Technical Sciences

TITLE: On the optimum form of a diffusor

PERIODICAL: Teploenergetika, no. 6, 1962, 88 - 91

TEXT: The authors are concerned with an axially symmetric
diffusor of given length and degree of divergence. The diffusor
is assumed to have curvilinear generators and therefore the
problem is more general than that discussed by other workers so
far. It is shown that the optimum form may be reduced to the
determination of a curve $R = R(x)$ which is such that the integral

$$\zeta = 4 \int_0^L \varphi(R') R' \frac{R^2 - 1}{R^5} \, dx \qquad (6)$$

is a minimum, where R is the radius of the diffusor at a
distance x along the axis, $R' = dR/dx$ and φ is a function
describing the ratio of losses due to divergence to losses due

Card 1/2

On the optimum form of a diffusor

S/096/62/000/006/010/011
E032/E314

to impact. It is shown that this variational problem does not have a solution for which $R(x)$ is a differentiable curve. It is therefore concluded that the profile of the diffusor with a minimum loss is not a smooth curve but contains two discontinuous changes in the cross-sectional area: one at the entrance and one at the exit. Explicit formulae are derived for the shape of the profile. They are found to be in qualitative agreement with published experimental data for plane diffusors. It is pointed out in conclusion that although frictional effects are neglected in this analysis, they should have little effect on the final formulae. There are 8 figures.

ASSOCIATION: Institut teploenergetiki AN UkrSSR
(Institute of Heat Engineering, AS UkrSSR)

Card 2/2

VIROZUB, I.YE. [Virozub, I.O.]; GORBATYY, Yu.P. [Horbatyi, IU.P.];
YEREMENKO, A.S. [IEremenko, O.S.]

Determining the characteristics of turbine lattices. Zbir. prats'
Inst. tepl. AN URSR no. 20:28-35 '60.   (MIRA 14:4)
          (Turbines—Aerodynamics)

VIROZUB, I.Ye.

Approximate method for calculating the velocity and temperature
fields during the flow of a laminar compressible liquid around
a profile in connection with heat exchange. Trudy Inst. tepl.
AN URSR no.14:108-116 '58.   (MIRA 12:4)
          (Boundary layer)   (Heat—Transmission)

PROCESSES AND PROPERTIES INDEX

Method of Determining the Machinability of Metals. I. A. Oding and P. R. Varnlev (Zavod. Lab. (Works' Lab.), 1940, 9, 1025-1029; Chem. Zentr., 1942, 113, (I), 261; C. Abs., 1943, 37, 3370). [In Russian.] A device for testing the machinability of iron, steel, and non-ferrous metals is described. The instrument is easy to operate, and the effect of structural inhomogeneities is eliminated by the use of small specimens. The machining mechanism, and the effects of structure and tool dimensions, can be studied. The instrument permits the determination of cutting indices at room and elevated temperatures, and the measurement of the tool temperature. The cutting

indices at a speed of 0.4 m./minute have been determined for cast iron, steel, alloy steels, brass, and bronze.

METALLURGICAL LITERATURE CLASSIFICATION

VIROBYANTS, K A

VIROBYANTS, R.A.

Classification of furnace black. Kauch. i rez. 16 no.8:18-21 Ag '57.
(MIRA 10:11)

1. Izhemskiye sazhevyye zavody.
(Carbon black)

VIROZUB, I.Ye.[Virozub, I.O.]

Solutions of equations of a laminar boundary layer by generalization of the Kochin-Loitsianskii method with heat exchange. Zbir.prats' Inst.tepl. AN URST no.16:13-22 '59.   (MIRA 13:10)
(Thermodynamics)

VIROZUB Ye.V

ARONOV, Samuil Grigor'yevich; BAUTIN, Ivan Grigor'yevich; VOLKOVA, Zoya
Andreyevna; VOLOSHIN, Arkhip Il'ich; VIROZUB, Yevgeniy Vladimirovich;
GABAY, Lev Izrailevich, DIDENKO, Viktor Yefimovich; ZASHKVARA, Vasi-
liy Grigor'yevich; IVANOV, Pavel Aleksandrovich, KUSTOV, Boris
Iosifovich [deceased]; KOTOV, Ivan Konstantinovich; KOTKIN, Aleksandr
Matveyevich; KOMANOVSKIY, Maksim Semenovich; LEYTES, Viktor Abramovich,
MOROZ, Mikhail Yakovlevich; NIKOLAYEV, Dmitriy Dmitriyevich. OBUKHOV-
SKIY Yakov Mironovich; RODSHTEYN, Pavel Moiseyevich; SAPOZHNIKOV,
Yakov Yudovich, SENICHENKO, Sergey Yefimovich; TOPORKOV, Vasiliy
Yakovlevich; CHERMNYKH Mikhail Sergeyevich; CHERKASSKAYA, Esfir'
Ionovna, SHVARTS, Semen Aronovich; SHERMAN, Mikhail Yakovlevich;
SHVARTS, Grigoriy Aleksandrovich; LIBERMAN, S.S., redaktor izdatel'-
stva; ANDREYEV, S.P., tekhnicheskiy redaktor

[Producing blast furnace coke of uniform quality; a collection of
articles for the disemmination of advanced practices] Poluchenie
domennogo koksa postoiannogo kachestva; sbornik statei po obmenu
peredovym opytom. Khar'kov, Gos.nauchno-tekhn.izd-vo lit-ry po
chernoi i tsvetnoi metallurgii, 1956. 300 p.   (MLRA 9:8)
          (Coke industry)

MOSOLOV, N.N. [deceased]; VIBRILEP, P.R.

New technology of applying B-83 antifriction alloy to segments of the bearing of hydrogenerators. Elektrosila no.14:93-94 '56.
(MIRA 12:12)

(Bearing (Machinery)) (Electric generators)

VIRSALADZE

USSR/Human and Animal Physiology - Internal Secretions.   R-8

Abs Jour   : Referat Zhur - Biol., No 16, 1957, 70914

Author   : Virsaladze
Inst   :
Title   : The Healing Action of Adiurecrine in Diabetic Insipidus
              Urine-Exhaustion.

Orig Pub   : Tr. Tbulissk. gos. med. in-ta, 1956, 9, 133-136

Abstract   : No abstract.

Card 1/1   - 43 -

VIRSALADZ", K. S.

    22663 Virsaladze, K. S., K Voprosv O Kardiospazze. Trudy (Tbilis. Gos.
Med. In-T) T. V, 1948, S. 125-32--NA Gruz. Yaz----Rezyume Na. Pus. Yaz

So: Letopis', No. 30, 1949

VIRSALADZE, K.S.

22663. VIRSALADZE, K.S. K voprosu o kardiospazme. Trudy (tbilis. gos. med. in-t),
T. V, 1948 S. 125-32.- na gruz. yaz. - rezyume na rus. yaz.

SO: LETOPIS' No. 20, 1949

VIRSALADZE, K.S.; MIKELISHVILI, K.D.

Treatment of thyrotoxicosis patients with potassium perchlorate.
Soob. AN Gruz. SSR 32 no.3:695-699 D '63.
(MIRA 17:11)

VIRSALADZE, Ye. B.

"Gruzinskaya vesennyaya khorovodnaya poeziya."

report submitted for 7th Intl Cong, Anthropological & Ethnological Sciences,
Moscow, 3-10 Aug 64.

VIRSHERT, O.O., inzh.

Increase in the reliability of front covers seals of TV-60-2 turbogenerators. Energetik 8 no. 12:18 D '60.   (MIRA 13:12)
(Turbogenerators)

VIRSIK, F.

Design of stabilizers with a variator. El tech cas 15 no. 9:
568-572 '64.

VIRSIK, F.

A national conference on ferrites.   El tech cas 13 no. 3:191   '62.

ORAVEC, Julius, inz., odborny asistent; VIRSIK, Felix, inz., odborny
        asistent

Pulse method for measuring the ionization time of thyratrons.
El tech cas 14 no.1:18-25 '63.

1. Katedra teoretickej a experimentalnej elektrotechniky,
Slovenska vysoka skola technicka, Mytna 32/e, Bratislava.

VIRSIK, F.

GEOGRAPHY & GEOLOGY

Periodicals: KRASY SLOVENSKA. Vol. 35, No. 12, Dec. 1958.

VIRSIK, F. Our mountain climbers in the Caucasus Mountains. p. 468.

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4, April 1959.
                                                                  Unclass.

VIRSIK, F.

Graphic solution of the problem of Wheatstone bridge. Tr. from the German. p.251.(Strojno-elektrotechnicky Casopis. Bratislava. Vol. 7, no. 4, 1956.)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

VIRSIK, F.

Bridge for induction measuring. p. 199. (Strojnoelektrotechnicky Casopis. Bratislava, Vol. 4, No. 2, 1953)

SO: Monthly list of East European Accessions, (EEAL), LC Vol 4, No. 6, June 1955, Uncl

VIRSIK, F.

Semiconductor thyratrons. p. 193.

ELEKTROTECHNICKY CASOPIS. (Slovenska akademia vied) Bratislava, Czechoslovakia, vol. 10, no. 3, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 11, Nov. 1959
Uncl.

Z/042/63/000/001/002/003
E140/E463

AUTHORS: Oravec Július and <u>Virsik Felix</u>, Engineers

TITLE: Pulse method for measuring thyratron ionization time

PERIODICAL: Elektrotechnický časopis, no.1, 1963, 18-25

TEXT: The method consists in applying a pulse of defined voltage
levels and of varying duration to the thyratron grid (with
thyratron d.c. anode voltage as a parameter).   The ionization
time is given by the shortest pulse which ignites the thyratron.
For an experimental argon-filled thyratron, times of the order of
1 to 7 μ s were measured and compared with values calculated from
a simplified theoretical model.   Agreement within an order of
magnitude was obtained.   There are 7 figures.

ASSOCIATION: Katedra teoretickej a experimentálnej elektrotechniky
             SVŠT, Mýtna 32/e, Bratislava (Department of
             Theoretical and Experimental Electrical Engineering
             SVŠT, Mýtna 32/e, Bratislava)

SUBMITTED: September 14, 1962

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28600
Z/042/61/000/008/001/004
E197/E335

9.7140 (also 1164)

AUTHORS: Benda, Oldrich and Virsík, Félix

TITLE: Dynamics of flux reversal in ferrite toroids with a rectangular hysteresis loop

PERIODICAL: Elektrotechnický časopis, no. 8, 1961, pp. 481 - 496

TEXT: The purpose of the article is the comparison of dynamic characteristics of ferrite toroids, calculated under two different assumptions with actual experiments. The ferrite components under consideration are to be used in digital computers as memory, logic and switching elements. The authors consider a ferrite toroid as a nonlinear electrical element, the dynamic characteristics of which are dependent on the method of causing magnetic reversal and on previous magnetic history. Reference is made to recent literature in which three models were used by various workers to represent experimental results. The authors believe that only two models are needed: in weak fields a model based on the shift of the Bloch walls and in strong fields - the rotation of magnetizing vectors will give

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Dynamics of flux reversal Z/042/61/000/006/001/00;
                                   E197/E335

concordance with experiments. In both cases the dynamic
characteristics were obtained from the basic equation of
Landau-Lifschitz, assuming that the period of the magnetizing
square wave impulses are longer than 9/10 of the time needed
for complete magnetic reversal. The basic formula was treated
in accordance with both models and the dynamic response derived.
The experiments were carried out at the Institute of Technical
Physics ČSAV on ferrite $Mn_{0.556}$, $Mg_{0.608}$, $Fe_{1.845}$, O_4, the
cross-section of the toroid being 0.266 cm^2 and the length
7.37 cm. The equipment used for measurement is the same as
described previously by B.H. Zitka. (A generator for square-
shaped current pulses - Cs.čas. fys., 1960, v.10, no.3,
pp. 230-234 - Ref. 11). The results of the two calculations
and that of the measurement are tabulated and the distribution
function of the results obtained by measurement and by the two
calculations are given in Fig. 9: experimental results - small
circles; Curve 1 - Block wall shift; Curve 2 - vector rotation,
vertical coordinate-distribution function, horizontal
coordinate-relative induction.

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28600
Z/042/61/000/008/001/004
Dynamics of flux reversal E197/E335

There are 9 figures, 2 tables and 15 references, 8 Soviet-
bloc and 7 non-Soviet bloc. The four latest English-
language references are: Ref. 2 - E.M. Gyorgy - Modified
rotational model of flux reversal. J. Appl. Phys., 1958, XII,
29, No. 12, 1709-1712; Ref. 3 - W.L. Shevel - IBM J., 1959, I;
Ref. 4 - E.M. Gyorgy - J. Appl. Phys., 1960, V, 31, No. 5 -
Supplement - 110S - 117S; Ref. 13 - R.H. Tancrell, R.E.McMahon -
J. Appl. Phys., 1960, V, 31, No. 5, 763-771.

ASSOCIATION: Katedra teoretickej a experimentálnej elektro-
                 techniky Slovenskej vysokej školy technickej
                 (Department of Theoretical and Experimental
                 Electrical Engineering, Slovak Technical University)

SUBMITTED: April 20, 1961

Card 3/4   ИХ

L 31092-66   EWT(1)   IJP(c)

ACC NR: AP6022811   SOURCE CODE: CZ/0026/65/010/004/0321/0350   40

P

AUTHOR: Virsik, Juraj.

ORG: Department of Mathematics, CSAV, Bratislava (Kabinet matematiky CSAV)

TITLE: Holonomic constraint and equations of motion in Minkowskian mechanics

SOURCE: Aplikace matematiky, v. 10, no. 4, 1965, 321-350

TOPIC TAGS: motion equation, particle motion, calculus, motion mechanics

ABSTRACT: In this paper the motion of a particle on a manifold given by
the equation $\omega(x,y,z,t) = 0$ (representing a holonomic con-
straint in Minkowskian space-time) is studied with the methods
of tensor calculus. The study of the motion of several parti-
cles under further constrainst meets with difficulties when
one tries to introduce metrics into the phase space, and there-
fore the case of only one particle is considered. Orig. art. has:
73 formulas. [JPRS]

SUB CODE: 12, 20/ SUBM DATE: 05Feb64/ ORIG REF: 001/ SOV REF: 001/ OTH REF: 001

Card 1/1   UC   09/5   07 9/...

L 38327-66   EWT(d)   IJP(c)

ACC NR: AP6028001   SOURCE CODE: CZ/0045/66/000/001/0082/0090

AUTHOR: Virsik, Juraj (Bratislava)   37
                                                                  B
ORG: Mathematics Institute, Slovak Academy of Sciences, Bratislava (Matematicky
ustav, Slovenska akademia vied)
                                                   16
TITLE: Representation of inertial particles in the Lie algebra of the Lorentz group

SOURCE: Matematicko-fyzikalny casopis, no. 1, 1966, 82-90

TOPIC TAGS: Lie group, vector analysis, homomorphism, particle physics, field theory

ABSTRACT: The explicit form of the Lie algebra $g(L)$ of the proper Lorentz group $\mathfrak{G}^+$
is derived and it is shown that the map $\pi \cdot$ exp is a homomorphism (on the whole) of a
certain linear subspace m of $g(1)$ onto the space of right cosets $\mathfrak{G}^+/\mathfrak{O}$. Since under the
given conditions one can associate with each element of $\mathfrak{G}^+/\mathfrak{O}$ an "inertial particle",
this homomorphism generates a representation of inertial particles in $m \subset g(1)$. A
physical interpretation of the analytic vector field on $\mathfrak{G}^+$ associated with an element
of m is given. [Orig. art. in Eng.] [JPRS: 36,845]

SUB CODE: 12 / SUBM DATE: 27Jan65 / SOV REF: 001 / OTH REF: 001

Card 1/1

L 34590-66   EWT(d)   IJP(c)

ACC NR:AP6025545   SOURCE CODE: CZ/0081/66/091/001/0018/0033

AUTHOR: Jelinek, Jiri--Yelinek, I. (Prague); Virsik, Juraj--Virsik, Yu. (Bratislava)

ORG: [Jelinek] Mathematics and Physics Faculty, Charles University, Prague
(Matematicko-fyzikalni fakulta KU); [Virsik] Department of Mathematics, SAV,
Bratislava (Kabinet matematiky SAV)

TITLE: Pseudo-unitary spaces

TOPIC TAGS: space geometry, topology, mathematic space

ABSTRACT: The article discusses linear spaces endowed with two or more topologies.
The "geometric" properties of pseudo-unitary spaces are investigated. Orig. art.
has: 8 formulas. [Orig. art. in Eng.] [JPRS: 35,386]

SUB CODE: 12 / SUBM DATE: 15Aug64 / SOV REF: 001 / OTH REF: 001

Card 1/1

VIRSIK, K.

Study of children of tubercular mothers in Bratislava Province,
Czechoslovakia. Vop.okh.mat. i det. 4 no.3:78-79 My-Je '59.
                                        (MIRA 12:8)

(BRATISLAVA PROVINCE CZECHOSLOVAKIA--TUBERCULOSIS)

VIRSIK, K.

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Kraj TB Hospital (Krajska nemocnica tuberkulozy), Pod. Biskupice; Director:
K. VIRSIK, MD.

Source: Prague, Rozhledy v Tuberkulose av Nemocech Plicnich, Vol XXI, No 6, July 61,
pp 476-482.

Data: "Pulmonary Tuberculosis Associated With Diabetes."

Authors: POZDECHOVA, E.
VIRSIK, K., MD
NEVICKY, D.,

VIRSIK, R.

VINSIK, K., doc. dr.; POLDECHOVA, E., MUDr.

A critical view of the contemporary state of the fight against
tuberculosis in Slovakia from the viewpoint of deficiencies in
roentgenological and bacterological mass screening. Cesk. zdrav.
13 no.9:439-443 S '65.

1. Krajska nemocnica tuberkulozy a chorob plucnych v Pod.
Biskupiciach.

CZECHOSLOVAKIA

JEZERSKY, J; VIRSIK, K.

1. Clinic of Tuberculosis LFUK (Klinika tuberkulozy LFUK),
    (for Jezersky); 2. Phthisiological Chair SUDL
    (Ptizeologicka katedra SUDL), (for Virsik)

Bratislava, Lekarsky obzor, No 6, 1963, pp 339-342

"Adrenal Cortical Hormones and ACTH in the Treatment
of Tuberculosis."

VIRSIK, K.

(F)

SURNAME, Given Names

Country: Czechoslovakia

Academic Degrees: [not given]

Affiliation: Kraj TB Hospital (Krajska nemocnica tuberkulozy), Pod. Biskupice; Director:
K. VIRSIK, MD.

Source: Prague, Rozhledy v Tuberkulose av Nemocech Plicnich, Vol XXI, No 6, July 61,
pp 476-482.

Data: "Pulmonary Tuberculosis Associated With Diabetes."

Authors: POZDECHOVA, E.
           VIRSIK, K., MD
           NEVICKY, D.,

SD

VIRSIK, K

VIRSIK K.

Liecba tuberkulozy kyselinou paraaminosalicylovou. II. Oana-
menis: Liecba specifickeho empyamu hrudnika. kys. P. A. S.
/Treatment of tuberculosis with para-aminosalicylic acid;
treatment of specific thoracic empyema with para-aminosali-
cylic acid/ Bratisl. lek. listy 31:1-2 1951 p. 132-6.

1. Of the Clinic of Tuberculosis of the Medioal Faculty of
Slovak University, Bratislava.

VIRSIK, K.

STUNDA, S.; VIRSIK, K.

Treatment of tuberculosis with paraaminosalicyclic acid; effect of paraaminosalicylic acid on the liver. Bratisl. lek. listy 31 no. 11-12:1098-1102 1951.

(CLML 23:1)

1. Of the Tuberculosis Clinic of Slovak University.